

CLAIMS

1. A circularly polarizing plate, comprising:

a complex type scattering-dichroic absorbing polarizer

**including a film that has a structure having a minute domain
dispersed in a matrix formed of an optically-transparent
water-soluble resin including an iodine based light absorbing
material; and**

**a quarter wavelength plate formed with one or more
retardation plates.**

**2. The circularly polarizing plate according to Claim 1,
wherein the minute domain of the complex type absorbing
polarizer is formed of an oriented birefringent material.**

**3. The circularly polarizing plate according to Claim 2,
wherein the birefringent material shows liquid crystalline at least
in orientation processing step.**

**4. The circularly polarizing plate according to Claim 2,
wherein the minute domain of the complex type absorbing
polarizer has 0.02 or more of birefringence.**

**5. The circularly polarizing plate according to Claim 2,
wherein in a refractive index difference between the birefringent
material forming the minute domain and the
optically-transparent water-soluble resin of the complex type
absorbing polarizer in each optical axis direction,**

a refractive index difference (Δn^1) in direction of axis

showing a maximum is 0.03 or more, and

a refractive index difference (Δn^2) between the Δn^1 direction and a direction of axes of two directions perpendicular to the Δn^1 direction is 50% or less of the Δn^1 .

5 6. The circularly polarizing plate according to Claim 5, wherein an absorption axis of the iodine based light absorbing material of the complex type absorbing polarizer is oriented in the Δn^1 direction.

10 7. The circularly polarizing plate according to Claim 1, wherein the film used as the complex type absorbing polarizer is manufactured by stretching.

8. The circularly polarizing plate according to Claim 5, wherein the minute domain of the complex type absorbing polarizer has a length of 0.05 to 500 μm in the Δn^2 direction.

15 9. The circularly polarizing plate according to Claim 1, wherein the retardation plate forming the quarter wavelength plate is a stretched film of a transparent polymer film and/or a layer of an aligned and solidified liquid-crystalline compound.

20 10. The circularly polarizing plate according to Claim 1, wherein at least one of the retardation plates forming the quarter wavelength plate satisfies the formula: $0 < (n_x - n_z) / (n_x - n_y) < 1$, where n_x is a maximum in-plane refractive index, n_y is a refractive index in a direction perpendicular to the direction in which the maximum in-plane refractive index is provided, and n_z is a
25 refractive index in the thickness direction.

11. The circularly polarizing plate according to Claim 1, wherein the retardation plate forming the quarter wavelength plate has reverse dispersion properties and satisfies the formula:

1.2<(nx-nz)/(nx-ny)<2.0, where nx is a maximum in-plane refractive index, ny is a refractive index in a direction perpendicular to the direction in which the maximum in-plane refractive index is provided, and nz is a refractive index in the thickness direction.

12. The circularly polarizing plate according to Claim 1, wherein the complex type absorbing polarizer and the quarter wavelength plate are laminated and fixed with a transparent acrylic pressure-sensitive adhesive.

13. The circularly polarizing plate according to Claim 1, wherein a transmittance to a linearly polarized light in a transmission direction is 80% or more,

a haze value is 5% or less , and

a haze value to a linearly polarized light in an absorption direction is 30% or more, with regard to the complex type absorbing polarizer.

14. An optical film comprising at least one of the circularly polarizing plate according to Claim 1.

15. An image display comprising the circularly polarizing plate according to Claim 1 or the optical film according to Claim 14.